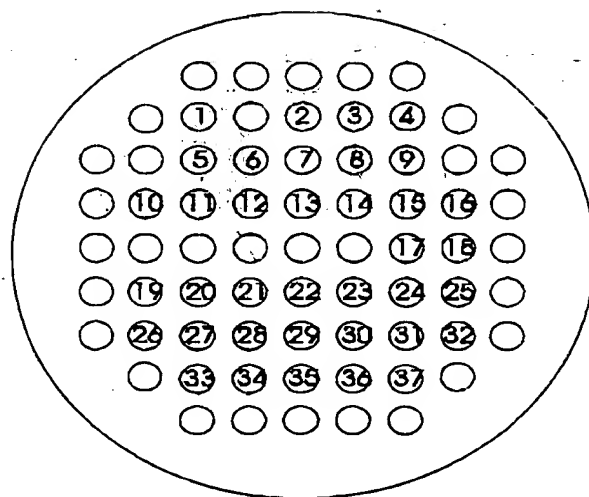


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1	Ir_1Ti	14	Ni_5Ti	27	Zn_5Si
2	Pt_1Ti	15	Rh_5Ti	28	V_5Si
3	Pt_2Ti	16	Ru_5Ti	29	Mn_3Si
4	Pt_5Ti	17	Cu_5Ti	30	Mn_5Si
5	Zn_5Ti	18	Cu_5Si	31	Fe_5Si
6	V_5Ti	19	Pd_1Si	32	Fe_{10}Si
7	Mn_3Ti	20	Pd_5Si	33	Ir_2Si
8	Mn_5Ti	21	Cr_5Si	34	Ir_5Si
9	Fe_5Ti	22	Co_5Si	35	Pt_1Si
10	Pd_1Ti	23	Ni_5Si	36	Pt_2Si
11	Pd_5Ti	24	Rh_5Si	37	Pt_5Si
12	Cr_5Ti	25	Ru_5Si		
13	Co_5Ti	26	Ti_5Si		

Figure 1/7: Design of the catalyst library of example 1: f.e. Co_5Si stands for 5 mol% cobalt oxide in 95 mol % SiO_2 , Co_5Ti stands for 5 mol% cobalt oxide in 95 mol% TiO_2

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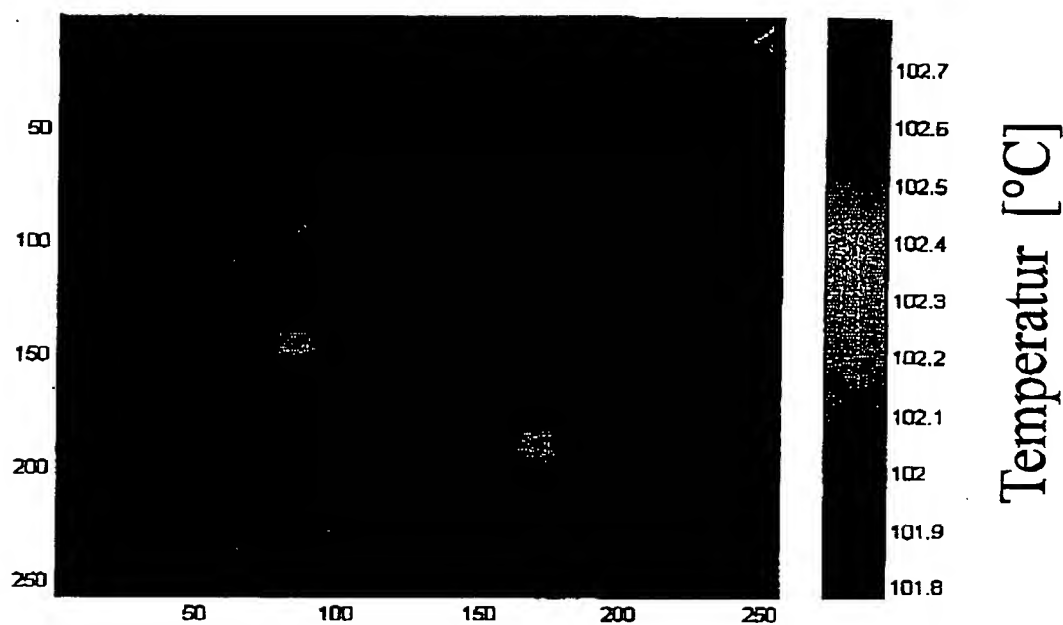


Figure 2/7: IR-image with temperature scale (right) during hydrogenation of 1-hexine at 100 °C

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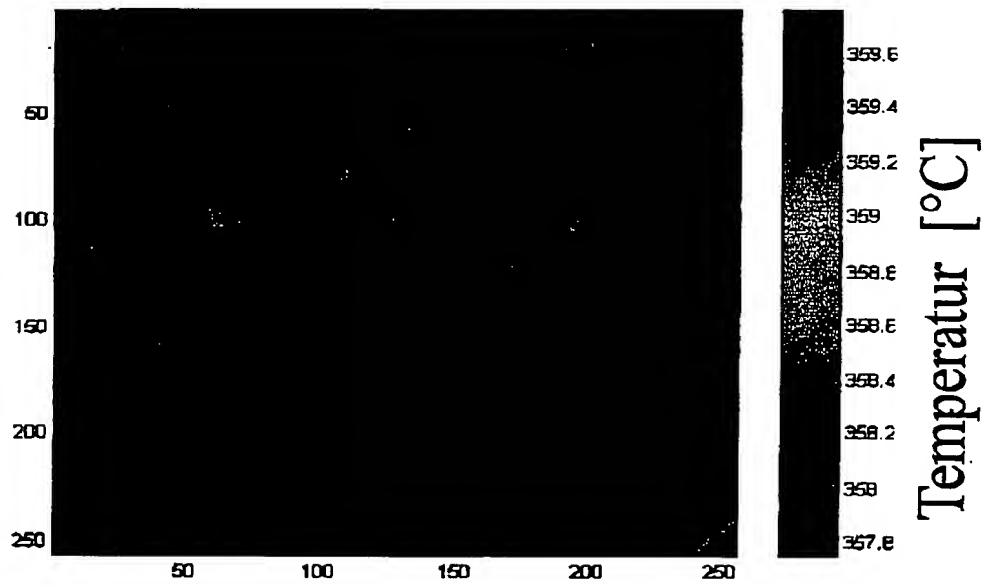


Figure 3/7: IR-image with temperature scale (right) during oxidation of isooctane with synthetic air 350 °C

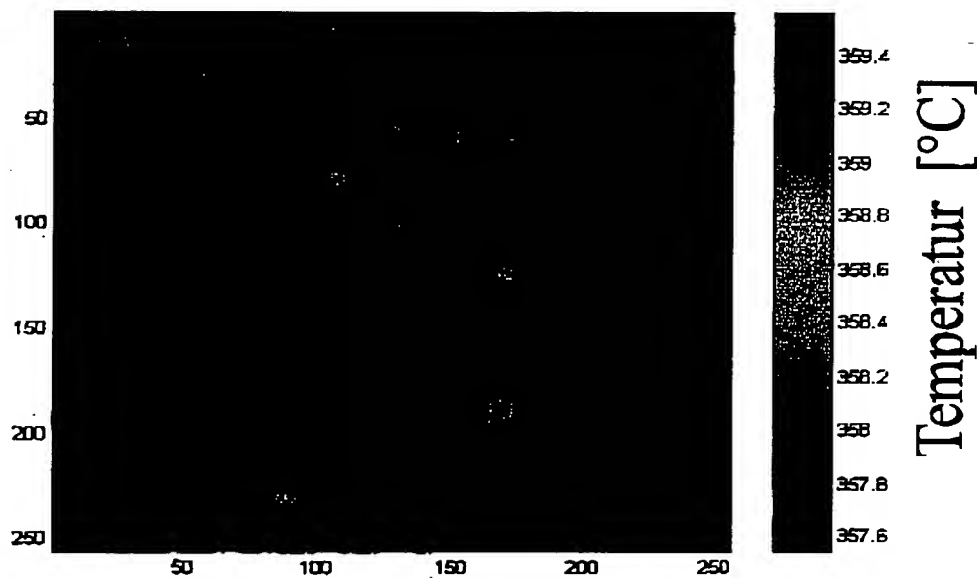


Figure 4/7: IR-image with temperature scale (right) during oxidation of toluene with synthetic air 350 °C

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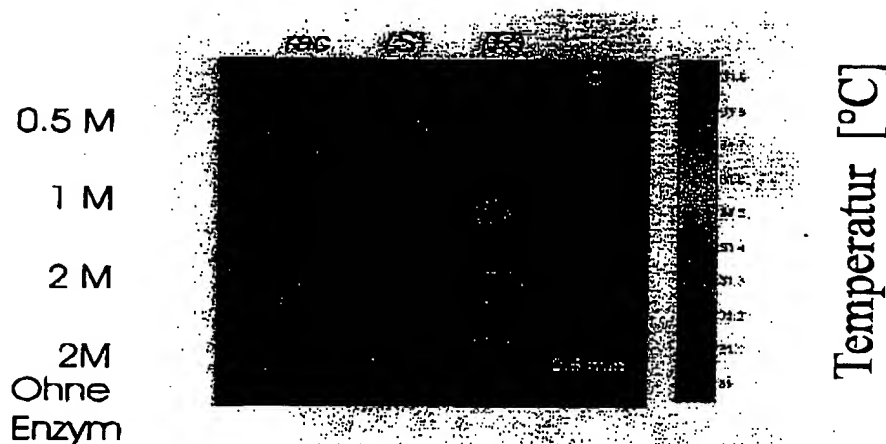


Figure 5/7: IR-image with temperature scale (right) during the lipase catalysed enantioselective acylation of 1-phenylethanol with vinylacetate at 30 °C

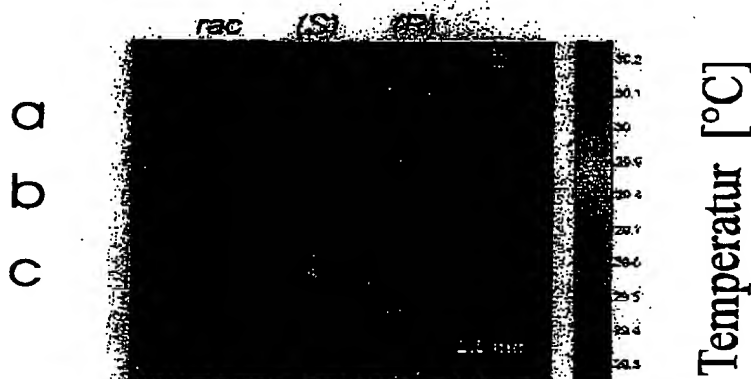


Figure 6/7: IR-image with temperature scale (right) during the enantioselective hydrolysis of epichlorohydrine with various metal-Salen catalysts at 27 °C

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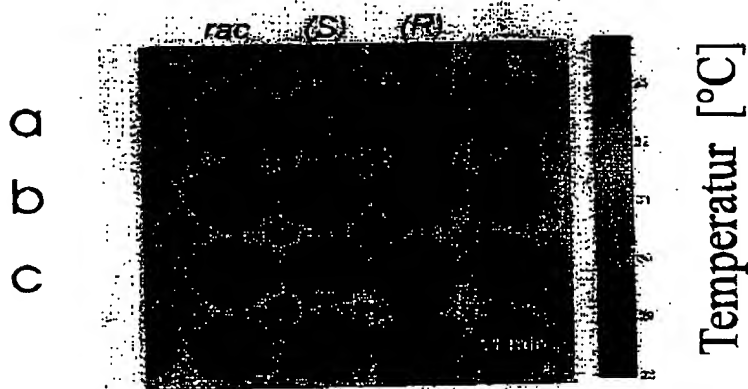


Figure 7/7: IR-image with temperature scale (right) during the enantioselective hydrolysis of various substrates with a cobalt-Salen catalyst at 27 °C